

Patent Abstracts of Japan

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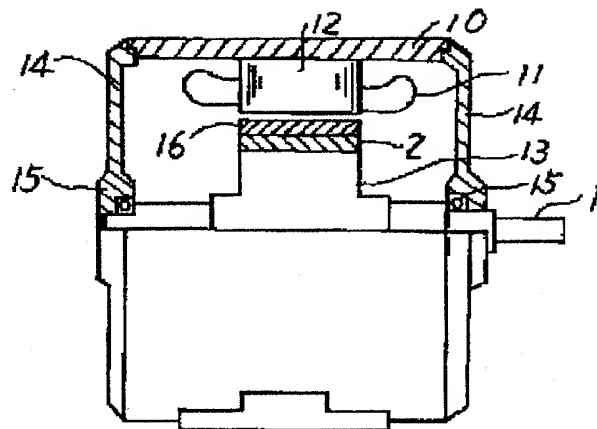
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TITLE : SYNCHRONOUS MOTOR OF PERMANENT MAGNET TYPE



ABSTRACT : PURPOSE: To present a permanent magnet type synchronous-motor for using the permanent magnet rotor of the permanent magnet type synchronous-motor to be driven with an inverter or the like, and increasing torque at a synchronous speed.

CONSTITUTION: A stator 12 having a stator frame 10 and a stator winding 11 is fixed to be pressed-in, and on the inner diameter side of the stator 12, a permanent magnet rotor 13 is set via a void. By a rotary shaft 1, both end sections are respectively supported with brackets 14 and bearings 15. On the outer periphery of the rotor 13, a permanent magnet 2 is fitted, and on the outer periphery of the permanent magnet 2, a non-magnetic circular-shell cylinder 16 is fitted. As the material of the permanent magnet 2, the substance of high magnetic energy (a high coercive force) is used, and for example, a rare earth magnet, a ferritic magnet, or the magnet of neodymium steel system is set.

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